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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA III Year I Semester Regular Examinations Feb-2021
DESIGN PATTERNS

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a List and explain different sections of Design Patterns. 6M
b Sketch the general template used to describe the design patterns. 6M

OR

- 2 What is design Pattern? Describe the MVC architecture in small talk. 12M

UNIT-II

- 3 a Define Lexi? List and explain the various problems that are associated with it. 6M
b Describe Hyphenation in detail. 6M

OR

- 4 a Elaborate on several components present in the document structure. 6M
b What is intersection of functionality and union of functionality? 6M

UNIT-III

- 5 a Explain creational patterns for abstract factory. 6M
b Discuss singleton creational pattern in detail and mention how to design a new application. 6M

OR

- 6 a Explain the role of creational patterns in design of a pattern. 6M
b Describe details about the prototype design patterns. 6M

UNIT-IV

- 7 What is structural pattern? Explain composite design patterns. 12M

OR

- 8 a Mention the uses and related patterns of bridge design pattern. 6M
b What is a bridge pattern? Explain the functions of each bridge design pattern. 6M

UNIT-V

- 9 a Write brief about motivation, structure, collaboration and implementation of chain of responsibility. 6M
b Describe the collaborations of a command pattern. 6M

OR

- 10 Elucidate memento design pattern in detail. 12M

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